

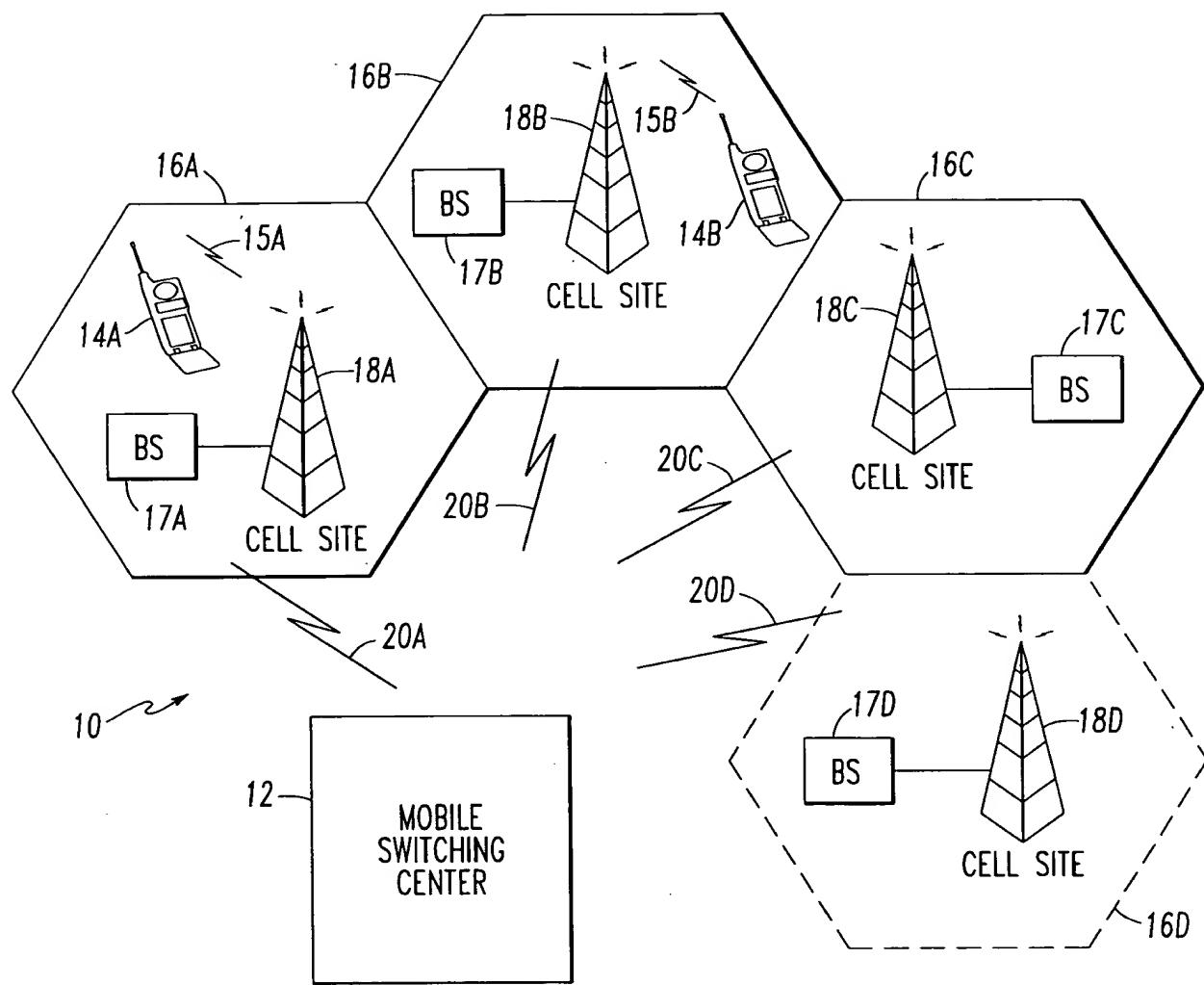
PROPRIETARY MATERIAL  
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FIG. 1

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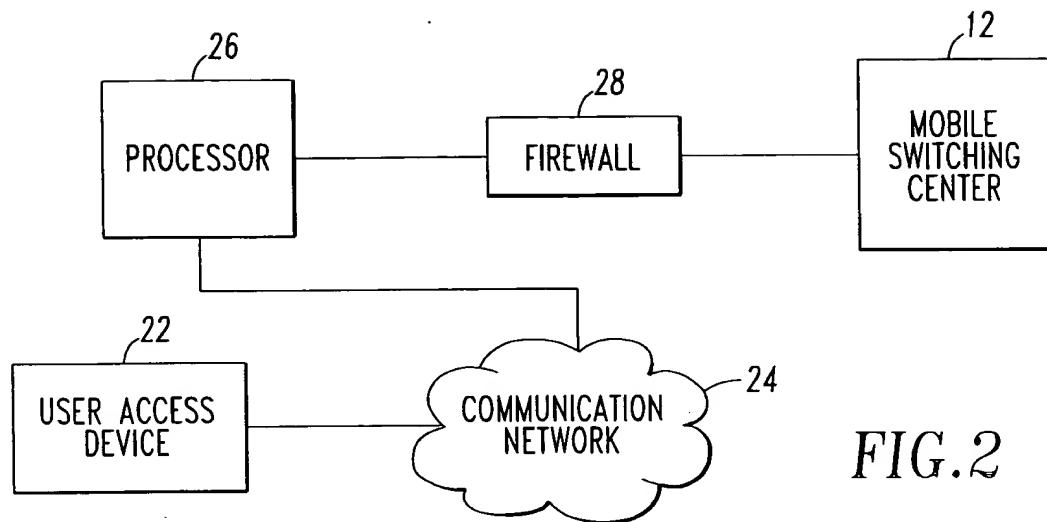


FIG.2

66321626 66321626 66321626

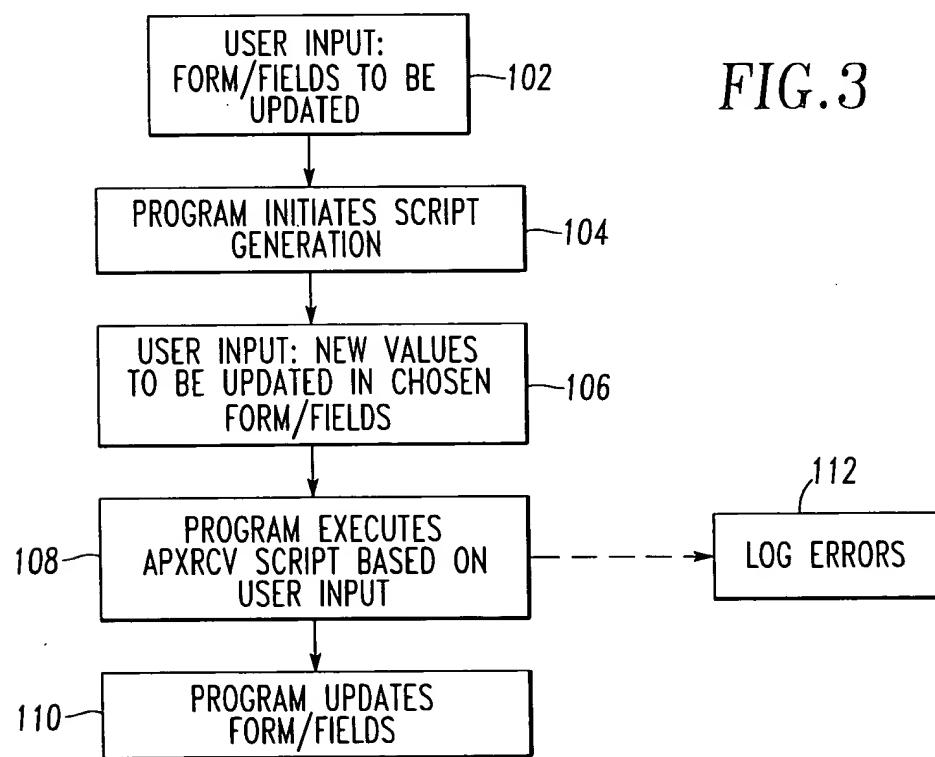


FIG.3

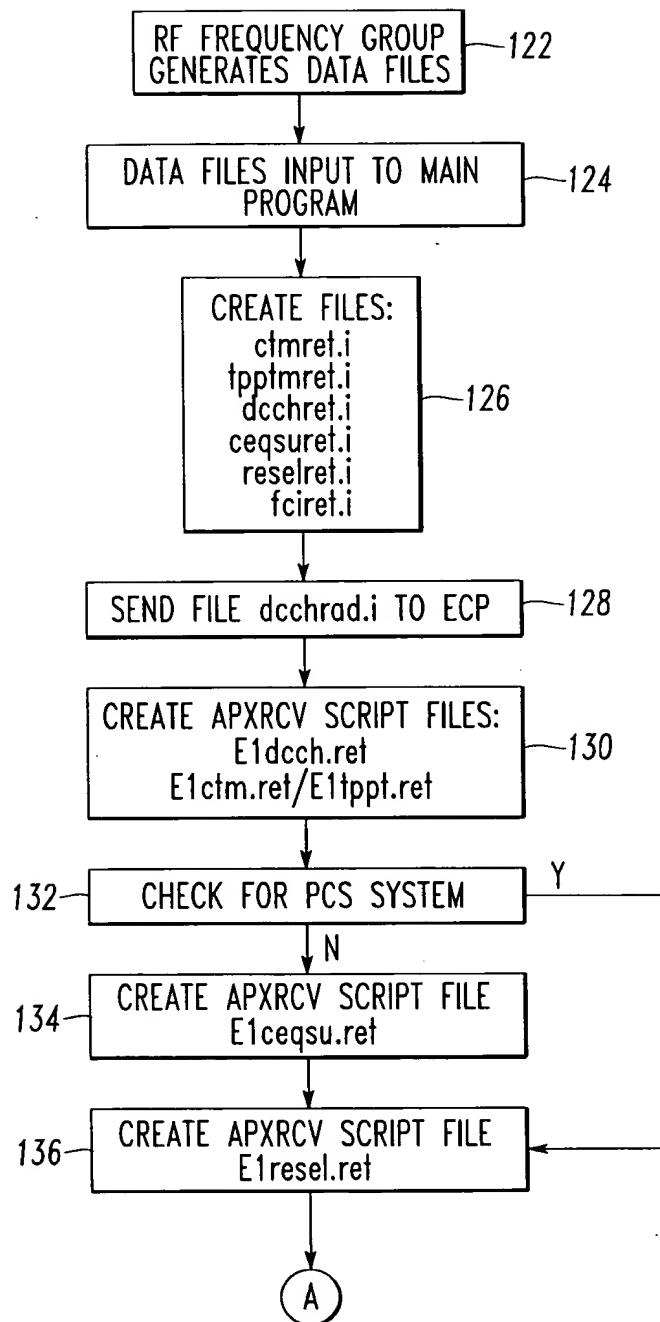
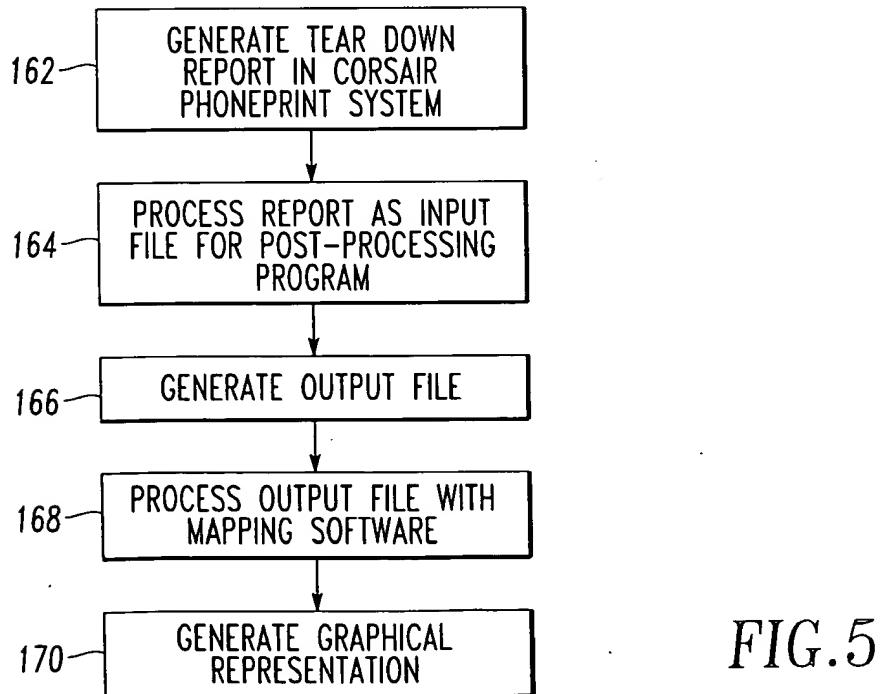
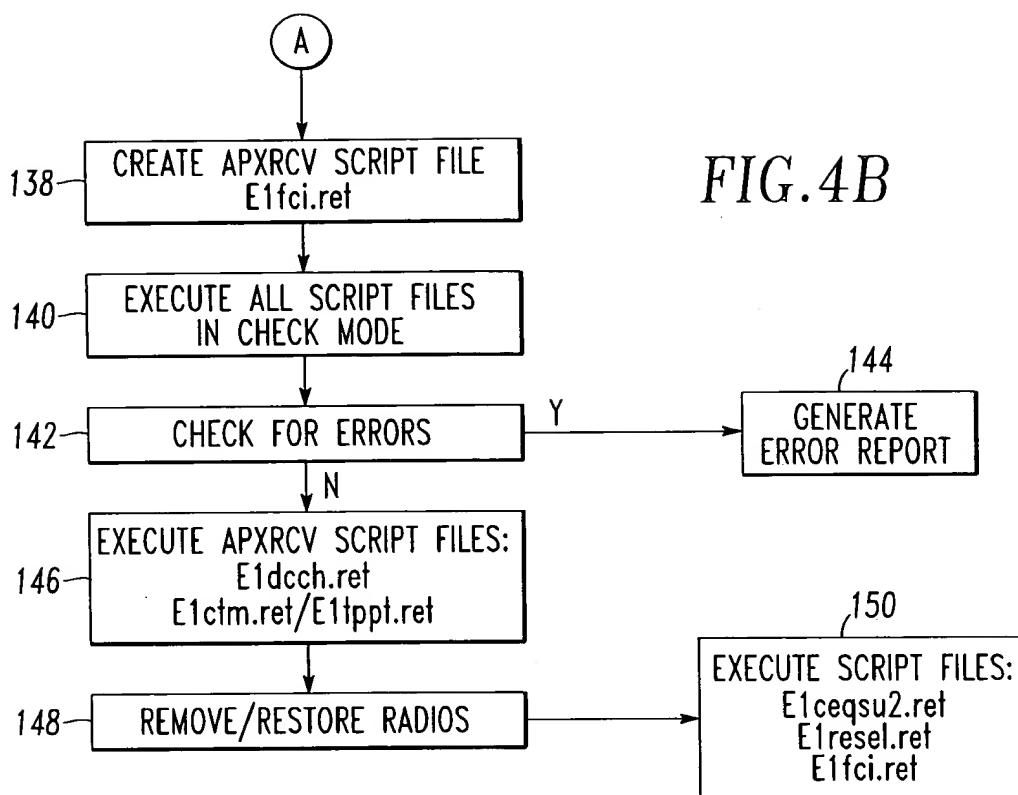


FIG.4A



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>pg pp9912.txt

Date	Time(2)	Site_ID	MIN(1)	Dialed_Digits	Tear-Down_Reason
12/25/99	19:26:09	20	2012075854	12014981322	MFG
12/23/99	14:56:20	219	2012075854	5617767114	MFG
12/26/99	21:40:32	167	2012130072	19547814445	MFG
12/23/99	19:06:49	82	2012134416	9544289147	MFG
12/23/99	19:06:23	82	2012134416	9544289147	MFG
12/25/99	17:23:55	82	2012134416	9544285083	MFG
12/25/99	15:06:20	82	2012134416	2015680907	MFG
12/25/99	13:04:16	82	2012134416	2015680907	MFG
12/25/99	13:04:05	82	2012134416	2015680907	MFG
12/25/99	13:03:53	82	2012134416	2015680907	MFG
12/25/99	13:03:31	82	2012134416	2015680907	MFG
12/25/99	13:01:49	82	2012134416	2015680907	MFG
12/25/99	12:53:38	82	2012134416	2015680907	MFG
12/25/99	12:52:32	82	2012134416	2015680907	MFG
12/25/99	12:52:03	82	2012134416	2015680907	MFG
12/25/99	12:50:48	82	2012134416	2015680907	MFG
12/25/99	12:48:15	82	2012134416	2015680907	MFG
12/25/99	12:47:16	82	2012134416	5680907 MFG	
12/24/99	11:58:50	82	2012134416	8003328463	MFG
12/24/99	11:58:08	82	2012134416	8003328463	MFG
12/24/99	10:03:16	82	2012134416	9544289147	MFG
12/22/99	14:58:09	80	2012300764	19546467166	MFG
12/29/99	10:54:28	177	2012499657	19086881800	MFG
12/29/99	10:51:49	177	2012499657	9412503698	MFG
12/29/99	10:25:04	145	2012499657	12012400657	MFG
12/29/99	10:24:42	145	2012499657	12012400657	MFG
12/27/99	21:26:01	49	2012476225	15616551115	MFG
12/24/99	19:22:48	219	2012476225	15615551212	MFG
12/24/99	19:22:26	219	2012476225	15615551212	MFG
12/24/99	19:22:06	219	2012476225	15615551212	MFG
12/24/99	19:13:38	219	2012476225	5617950022	MFG
12/27/99	12:01:06	20	2012476225	15614996976	MFG
12/23/99	16:23:47	12	2012640686	3105152822	MFG
12/23/99	16:17:19	12	2012640686	3105152822	MFG
12/23/99	16:17:03	12	2012640686	3105152822	MFG

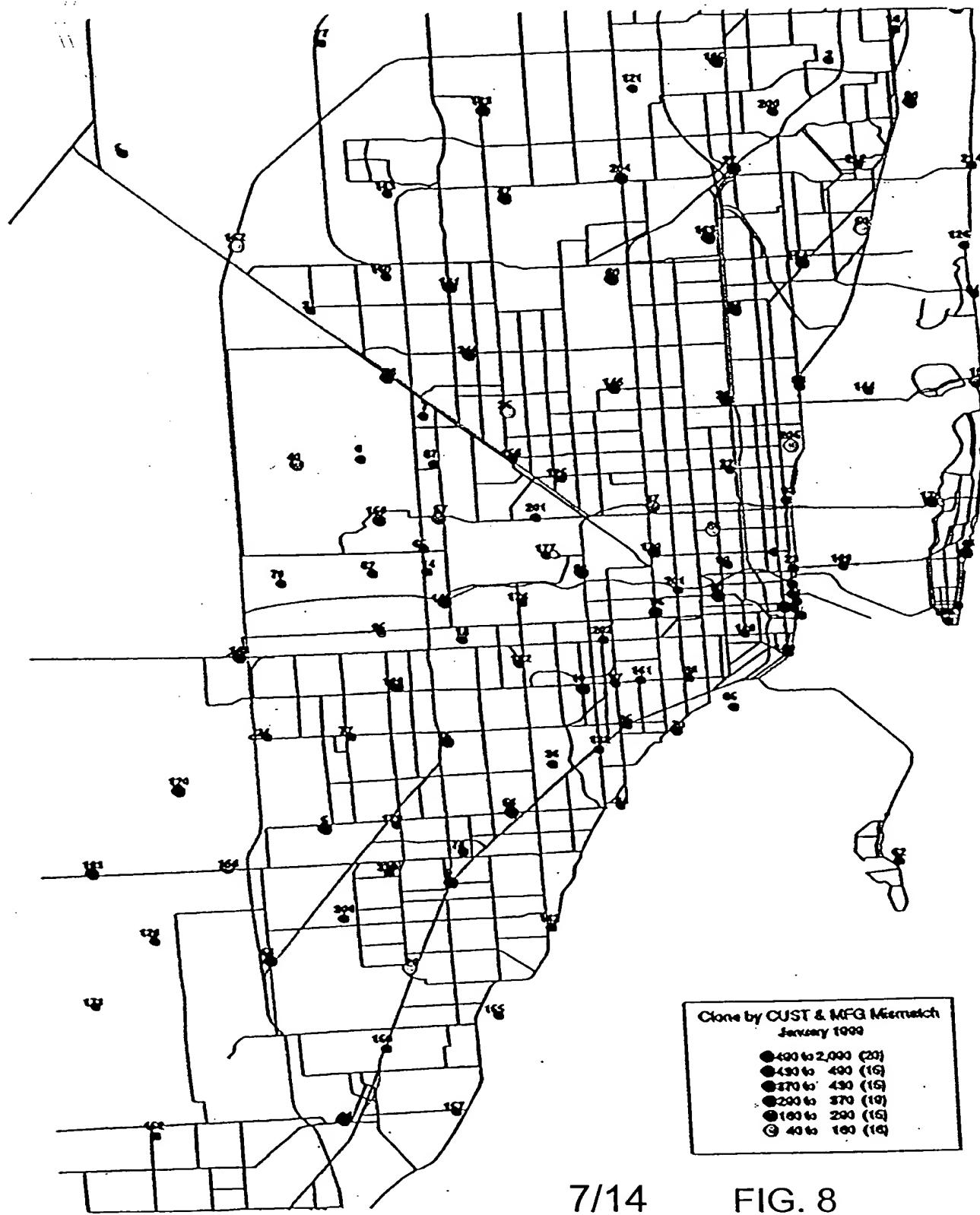
FIG.6

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```
>pg map1299
ECP, CellNo,Longitude, Latitude, Count
4,1,-80.1675,26.155278,148
3,5,-80.361111,25.699444,209
1,6,-80.171667,26.36,675
1,7,-80.144167,26.562778,173
1,8,-80.109722,26.760556,76
3,9,-80.317222,25.679444,311
3,10,-80.266667,25.747222,115
4,15,-80.123056,25.854167,510
4,16,-80.198611,26.248889,401
1,18,-80.088889,26.45,380
1,20,-80.058611,26.651944,216
4,22,-80.210833,25.848611,138
4,23,-80.128889,26.085833,844
4,25,-80.288889,25.845556,55
1,26,-80.201111,26.630833,251
4,27,-80.204722,25.93,590
3,38,-80.360833,25.596667,255
3,39,-80.333889,25.649444,584
4,30,-80.415,26.086389,207
4,31,-80.175833,26.121944,128
1,37,-80.681389,26.686667,213
4,40,-80.364444,25.828333,156
4,42,-80.286944,25.920556,147
4,43,-80.168056,26.024722,333
3,46,-80.129167,25.793611,2694
3,47,-80.238611,25.811389,121
1,49,-80.051667,26.711944,381
4,50,-80.160556,25.908611,187
4,52,-80.26,26.121667,456
4,53,-80.105556,26.136389,501
3,54,-80.383333,25.653056,81
4,55,-80.249444,26.268333,314
3,56,-80.294722,25.703889,184
3,57,-80.315,25.808333,21
3,58,-80.265278,25.788333,267
4,60,-80.25,25.891667,205
4,61,-80.090833,26.230278,147
4,64,-80.211667,26.0175,595
```

FIG.7

O S S J S A M E S S O - O U P A L A C E



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FIG. 8

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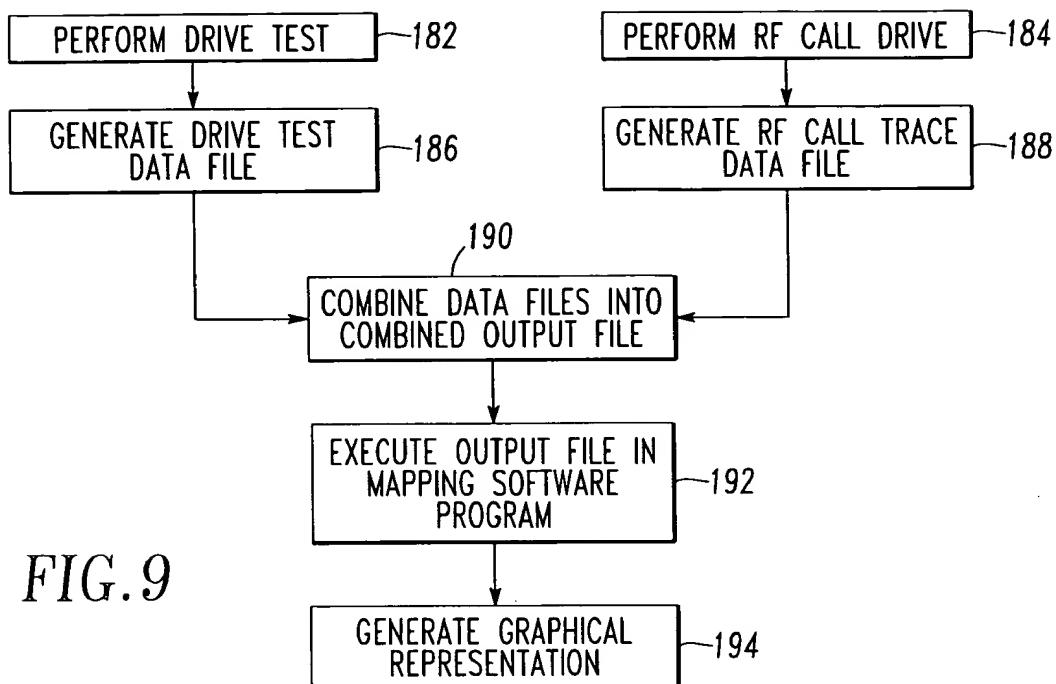


FIG.9

ER,RBER,FER,BQ,TD,FREQ,TIME,MS,PRINT  
DEV,FVC,RVC,TDRVC,FVC,RVC,RVC,RVC,RVC,RVC,ERR,ALIG

28.0069725,9412580201,T017C,MDVC-  
15,0,1,0,2,0  
28.0069725,9412580201,T017C,MDVC-  
15,0,1,0,2,0  
28.0069856,9412580201,T017C,MDVC-  
15,0,2,0,2,1  
28.0069856,9412580201,T017C,MDVC-  
15,0,2,0,2,1  
28.0070392,9412580201,T005B,MDVC-  
2,0,4,0,2,1  
28.0072014,9412580201,T005B,MDVC-  
7,0,4,0,2,1  
28.0072014,9412580201,T005B,MDVC-  
7,0,4,0,2,1  
28.0073900,9412580201,T005B,MDVC-  
8,0,3,0,2,1  
28.0073900,9412580201,T005B,MDVC-  
8,0,3,0,2,1  
28.0075761,9412580201,T005B,MDVC-  
7,0,5,0,2,1  
28.0075761,9412580201,T005B,MDVC-  
7,0,5,0,2,1  
592,9412580102,T005B

FIG.11B

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MOBILE TELEPHONE CELL TRAFFIC RECORDING  
DIGITAL SIGNAL STRENGTH MEASURMENTS

MSNB	CELL	DEV	SSFVC	SSRVC
9412580201	T017C	MDVC-1060	23	20
SSSTDRC	BERFVC	BERRVC	RBERRVC	FERRVC
6	3	2	2	0
BQRVC	TDRVC	FREQERR	TIMEALIGN	MSPOW
6	3	1	0	2
NCELL	NSSFFMC	MEASCHAN	VIND	
T017A	5	1260	Y	
T017B	23	1272	Y	
T006B	17	1300	Y	
T016B	13	1305	Y	
T004A	29	1251	Y	
T005B	33	1302	Y	
T005A	23	1290	Y	
T018A	21	1294	Y	
T154B	21	1303	Y	
TIMW	PRINTIND		FCODE	
11:08:27	0			

END

MOBILE TELEPHONE CELL TRAFFIC RECORDING CANDIDATE LIST FOR  
HANDOFF

MSNB	CELL	TIME	FCODE	URGENCY
9412580201	T017C	11:08:28		0
CANDCELL	CELLTYPE		NTYPE	RATING
T005B	0		STD	0

END

FIG. 10

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XTEL LOG FILE

DATE,TIME,LONGITUDE,LATITUDE,ALT,SPEED,HEADING,DPS\_MODE,PHONE\_TASK,TASK\_DESC,CHAN,RSSI,MODTYPE,SLOT,CHAN\_TYPE,SAT,DVCC,POWER,BER,BER\_CODE,SBLT,A,CELL1,DISTANCE1,CELL2,DISTANCE2,CELL3,DISTANCE3,LOWER\_CTOA,UPPER\_CTOA,COCHA\_RSSI,MARKER,CHAN\_GRP,EVENT,EVINFO,BAND,LISTTYPE,LISTCT,CHAN1,RSS1,CHAN2,RSSI2,CHAN3,RSSI3,CHAN4,RSSI4,CHAN5,RSSI5,CHAN6,RSSI6,CHAN7,RSSI7,CHAN8,RSSI8,CHAN9,RSSI9,CHAN10,RSSI10,CHAN11,RSSI11,CHAN12,RSSI12,CCHAN13,RSSI13,CHAN14,RSSI14,CHAN15,RSSI15,CHAN16,RSSI16,CHAN17,RSSI17,CHAN18,RSSI18,CHAN19,RSSI19,CHAN20,RSSI20,CHAN21,RSSI21,CHAN22,RSSI22,CHAN23,RSSI23,CHAN24,RSSI24,CHAN25,RSSI25,REVISION  
7/30/99,11:08:27,-  
82.3321883,27.9813839,9,40.3,86.9,G8,5,Conversation,1218,-  
93,D,3,V,3,5,2,0.87,3,0,0,,,,14,15,-100,0,8,,1,Neig,9,1284,-  
89,1302,-93,1300,-103,1255,-107,1317,-109,1303,-109,1314,-111,1305,-  
111,1315,-  
113,0,4  
7/30/99,10:52:47,-  
82.3321883,27.9813839,9,40.3,86.9,G8,5,Conversation,1218,-  
93,D,3,V,3,5,2,0.84,3,0,0,,,,14,15,-100,0,8,,1,Neig,9,1284,-  
89,1302,-93,1300,-103,1303,-107,1255,-109,1314,-111,1317,-111,1305,-  
111,1315,-  
113,0,4  
7/30/99,10:52:48,-  
82.33219553,27.9813947,10,43.1,,87.0,G8,5,Conversation,1218,-  
93,D,3,V,3,5,2,0.84,3,0,0,,,-10,38,-137,0,8,,1,Neig,9,1284,-  
89,1302,-93,1300,-103,1303,-107,1255,-109,1314,-111,1317,-111,1305,-  
111,1315,-  
113,0,4  
7/30/99,10:52:48,-  
82.3319553,27.9813947,10,43.1,,87.0,G8,5,Conversation,1218,-  
95,D,3,V,3,5,2,0.84,3,0,0,,,-10,38,-137,0,8,,1,Neig,9,1284,-  
83,1302,-93,1300,-101,1303,-105,1255,-109,1305,-111,1314,-113,1315,-  
113,1317,-  
113,0,4  
7/30/99,10:52:49,-  
82.3317164,27.9814044,10,44.7,,87.2,G8,5,Conversation,1218,-  
95,D,3,V,3,5,2,0.99,3,0,0,,,-10,38,-137,0,8,,1,Neig,9,1284,-  
83,1302,-93,1300,-101,1303,-105,1255,-109,1305,-111,1314,-113,1315,-  
111,1317,-  
113,0,4

FIG.11A

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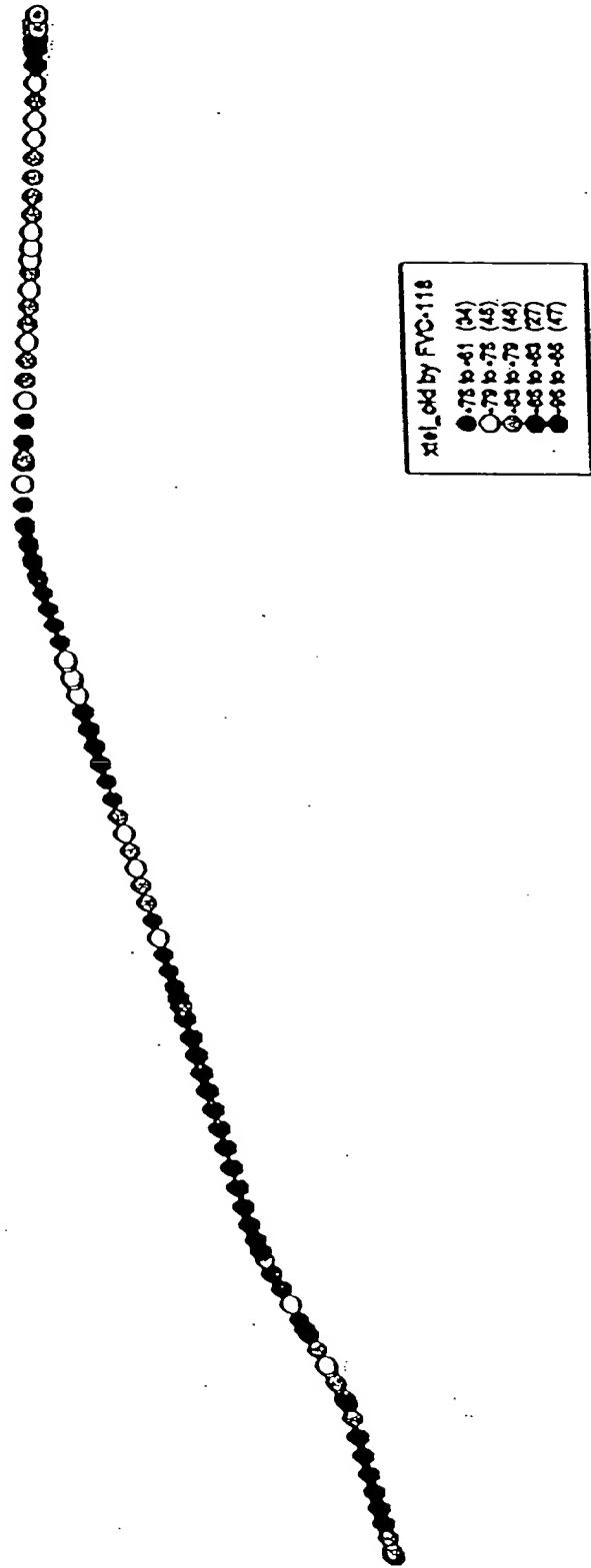


FIG.12

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COMARCO FILE

13:20:00.8,26.677,-81.567  
12:20:01.2,25.230,-81.456  
.....  
.....  
13.21.00.3,28.655,-81.2128

FIG.13A

Time,Long,Lat,CellNo,SS,  
12:41:29,28,6559300,-18.205792000,1353,-124  
12:41:29,28,6559300,-18.205792000,201,-106  
12:41:29,28,6559300,-18.205792000,32,-106  
12:41:29,28,6559300,-18.205792000,321,-76  
12:41:29,28,6559300,-18.205792000,323,-66  
12:41:29,28,6559300,-18.205792000,831,-100  
12:41:30,28,6559260,-18.205580000,323,-66  
12:41:31,28,6559170,-18.205380000,321,-75  
12:41:31,28,6559170,-18.205380000,321,-75  
12:41:31,28,6559170,-18.205380000,323,-64  
12:41:32,28,6559080,-18.205198000,323,-63  
12:41:33,28,6558950,-18.204922000,321,-73  
12:41:33,28,6558950,-18.204922000,323,-62  
12:41:34,28,6558900,-18.204769000,321,-73  
12:41:34,28,6558900,-18.204769000,321,-73  
12:41:34,28,6558900,-18.204769000,322,-98  
12:41:34,28,6558900,-18.204769000,323,-61  
12:41:35,28,6558900,-18.204577000,1353,-124  
12:41:35,28,6558900,-18.204577000,201,-105  
12:41:35,28,6558900,-18.204577000,202,-106  
12:41:35,28,6558900,-18.204577000,32,-105  
12:41:35,28,6558900,-18.204577000,323,-63  
12:41:35,28,6558900,-18.204577000,831,-99  
12:41:37,28,6558970,-18.204219000,321,-73  
12:41:37,28,6558970,-18.204219000,323,-67  
12:41:38,28,6559000,-18.204044000,321,-74  
12:41:38,28,6559000,-18.204044000,323,-67  
12:41:38,28,6559000,-18.204044000,321,-74  
12:41:38,28,6559000,-18.204044000,323,-67  
12:41:40,28,6559020,-18.203683000,1353,-122  
12:41:40,28,6559020,-18.203683000,202,-104  
12:41:40,28,6559020,-18.203683000,32,-105  
12:41:40,28,6559020,-18.203683000,321,-73  
12:41:40,28,6559020,-18.203683000,322,-96  
12:41:40,28,6559020,-18.203683000,323,-67  
12:41:41,28,6559070,-18.203457000,321,-72  
12:41:41,28,6559070,-18.203457000,323,-66  
12:41:42,28,6559100,-18.203125000,321,-71  
12:41:42,28,6559100,-18.203125000,323,-66

FIG.13B

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v----- Record # 1: ----- v  
05/10/99 13:22:05 ALM INF 4103 7 32 G TC 457  
Call Monitor: Call Record has been Written in RAM disk  
Ph#: (407)9223002 Call clear by MS - mobile clear  
v----- Record # 2: ----- v  
05/10/99 13:22:04 ALM INF 4113 7 32 G TC 457  
Call Monitor: Call RSSI value  
(407)9223002 cell 323 rrssi -77 attn 4 snr 40  
v----- Record # 3: ----- v  
05/10/99 13:22:04 ALM INF 4117 7 32 G SRC  
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.  
(407)9223002 Cell\_id RSSI:/323 / -73  
v----- Record # 264: ----- v  
05/10/99 13:21:00 ALM INF 4117 7 20 A SRC  
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.  
(407)9223002 Cell\_id RSSI:/201 / -98  
v----- Record # 265: ----- v  
05/10/99 13:21:00 ALM INF 4117 7 32 B SRC  
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.  
(407)9223002 Cell\_id RSSI:/322 / -103  
v----- Record # 266: ----- v  
05/10/99 13:21:00 ALM INF 4117 7 83 A SRC  
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.  
(407)9223002 Cell\_id RSSI:/861 / -96  
v----- Record # 267: ----- v  
05/10/99 13:21:00 ALM INF 4117 7 32 A SRC  
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.  
(407)9223002 Cell\_id RSSI:/321 / -78  
v----- Record # 268: ----- v  
05/10/99 13:21:00 ALM INF 4117 7 135 G SRC  
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.  
(407)9223002 Cell\_id RSSI:/1353 / -113  
v----- Record # 269: ----- v  
05/10/99 13:21:00 ALM INF 4117 7 20 B SRC  
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.  
(407)9223002 Cell\_id RSSI:/302 / -100  
v----- Record # 270: ----- v  
05/10/99 13:21:00 ALM INF 4113 7 32 G TC 457  
Call Monitor: Call RSSI value  
(407)9223002 cell 323 rrssi -72 attn 4 snr 40  
v----- Record # 271: ----- v  
05/10/99 13:21:00 ALM INF 4117 7 32 G SRC  
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.  
(407)9223002 Cell\_id RSSI:/323 / -71  
v----- Record # 272: ----- v  
05/10/99 13:21:00 ALM INF 4117 7 3 B SRC  
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.  
(407)9223002 Cell\_id RSSI:/32 / -115

FIG.14

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tre0528_out by SS			
O	-45	43	-66 (400)
●	-42	43	-65 (534)
●	-48	43	-42 (488)
●	-106	43	-48 (540)
●	-116	43	-106 (482)
●	-127	43	-116 (566)

FIG.15